



Attorney's Docket No.: 11696-067001 / 2009-55300-15-U-00001.01

1632

TECH CENTER 1600/2900

MAY 07 2003

RECEIVED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Roderick J. Scott  
Serial No. : 10/058,825  
Filed : January 30, 2002  
Title : MODIFIED PLANTS

Art Unit : 1632  
Examiner : Unknown

Commissioner for Patents  
Washington, D.C. 20231

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement (1 page);
2. Form PTO-1449 (4 pages);
3. Copies of Cited References (79); and
4. A Return Postcard.

Please date stamp and mail the enclosed postcard.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: May 1, 2003

Ronald C. Lundquist, Ph.D.  
Reg. No. 37,875

Fish & Richardson P.C., P.A.  
60 South Sixth Street  
Suite 3300  
Minneapolis, MN 55402  
Telephone: (612) 335-5070  
Facsimile: (612) 288-9696

60138712.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

5-10-03  
Date of Deposit

Signature

Trisha J. Anderson

Typed or Printed Name of Person Signing Certificate



RECEIVED  
 MAY 07 2003  
 TECH CENTER 1600/2900

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Roderick J. Scott  
 Serial No. : 10/058,825  
 Filed : January 30, 2002  
 Title : MODIFIED PLANTS

Art Unit : 1632  
 Examiner : Unknown

Commissioner for Patents  
 Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Copies of the references listed on the attached form PTO-1449 are enclosed.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: May 1, 2003

Ronald C. Lundquist, Ph.D.  
 Reg. No. 37,875

Fish & Richardson P.C., P.A.  
 60 South Sixth Street  
 Suite 3300  
 Minneapolis, MN 55402  
 Telephone: (612) 335-5070  
 Facsimile: (612) 288-9696

60138639.doc

## CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit: 5/1/03

Signature: Trisha J. Anderson

Trisha J. Anderson  
 Typed or Printed Name of Person Signing Certificate

Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 11696-067001	Application No. 10/058,825
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Roderick J. Scott		MAY 07 2003 TECH CENTER 1600/2900	
		Filing Date January 30, 2002	Group Art Unit 1632		

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
							Yes No
	AB	0 117 618	07/27/88	EPO			
	AC	0 242 246	11/11/92	EPO			
	AD	0 270 822	06/15/88	EPO			Abstr.
	AE	0 344 029	01/29/97	EPO			
	AF	WO 98/04725	02/05/98	PCT			
	AG	WO 98/07834	02/26/98	PCT			
	AH	WO 01/09299	02/08/01	PCT			

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AI	GenBank Accession No. C10692
	AJ	GenBank Accession No. U53501
	AK	GenBank Accession No. Z97335
	AL	GenBank Accession No. AC002130
	AM	GenBank Accession No. AC002396
	AN	GenBank Accession No. AC002986
	AO	GenBank Accession No. AC007067
	AP	GenBank Accession No. AF014824
	AQ	GenBank Accession No. AL021635
	AR	GenBank Accession No. AL021711
	AS	GenBank Accession No. AL035538
	AT	Adams et al., "Parent-of-origin effects on seed development in <i>Arabidopsis thaliana</i> require DNA methylation," <i>Development</i> , 2000, 127(11):2493-2502
	AU	Alexander and Wulff, "Experimental Ecological Genetics in Plantago: X. The Effects of Maternal Temperature on Seed and Seeding Characters in <i>P. lanceolata</i> ," <i>J. Ecology</i> , 1985, 73(1):271-282

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

MAY 06 2002  
PATENT

Substitute Form PTO-1449 (Rev. 11-97) (Modified)		U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 11696-067001	Application No. 10/058,825
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Roderick J. Scott		
		Filing Date January 30, 2002	Group Art Unit 1632	
(37 CFR §1.98(b))				

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AV	Angenent et al., "A Novel Class of MADS Box Genes is Involved in Ovule Development in Petunia," <u>Plant Cell</u> , 1995, 7:1569-1582
	AW	Bender and Fink, "Epigenetic Control of an Endogenous Gene Family Is Revealed by a Novel Blue Fluorescent Mutant of <i>Arabidopsis</i> ," <u>Cell</u> , 1995, 83:725-734
	AX	Bevan, "Binary <i>Agrobacterium</i> vectors for plant transformation," <u>Nucleic Acids Res.</u> , 1984, 12(22):8711-8721
	AY	Bhattacharya et al., "A mammalian protein with specific demethylase activity for mCpG DNA," <u>Nature</u> , 1999, 397:579-583
	AZ	Brink and Cooper, "The Endosperm in Seed Development," <u>The Botanical Review</u> , 1947, 13:423-541
	AAA	Brutnell and Dellaporta, "Somatic Inactivation and Reactivation of <i>Ac</i> Associated With Changes in Cytosine Methylation and Transposase Expression," <u>Genetics</u> , 1994, 138:213-225
	ABB	Chaudhuri and Messing, "Allele-specific parental imprinting of <i>dzl</i> , a posttranscriptional regulator of zein accumulation," <u>Proc. Natl. Acad. Sci. USA</u> , 1994, 91:4867-4871
	ACC	Chaudhury et al., "Fertilization-independent seed development in <i>Arabidopsis thaliana</i> ," <u>Proc. Natl. Acad. Sci. USA</u> , 1997, 94:4223-4228
	ADD	Chen et al., "Gene dosage and stochastic effects determine the severity and direction of uniparental ribosomal RNA gene silencing (nucleolar dominance) in <i>Arabidopsis</i> allopolyploids," <u>Proc. Natl. Acad. Sci. USA</u> , 1998, 95:14891-14896
	AEE	Colombo et al., "The Petunia MADS Box Gene <i>FB11</i> Determines Ovule Identity," <u>Plant Cell</u> , 1995, 7:1859-1868
	AFF	Duvick, "Genetic Contributions to Advances in Yield of U.S. Maize," <u>Maydica</u> , 1992, 37:69-79
	AGG	Ehlenfeldt and Ortiz, "Evidence on the nature and origins of endosperm dosage requirements in <i>Solanum</i> and other angiosperm genera," <u>Sex Plant Reprod.</u> , 1995, 8:189-196
	AHH	Finnegan et al., "Reduced DNA methylation in <i>Arabidopsis thaliana</i> results in abnormal plant development," <u>Proc. Natl. Acad. Sci. USA</u> , 1996, 93:8449-8454
	AII	Foster et al., "A <i>Brassica napus</i> mRNA encoding a protein homologous to phospholipid transfer proteins, is expressed specifically in the tapetum and developing microspores," <u>Plant Science</u> , 1992, 84:187-192
	AJJ	Fromm et al., "Stable transformation of maize after gene transfer by electroporation," <u>Nature</u> , 1986, 319:791-793
	AKK	Giroux et al., "A single gene mutation that increases maize seed weight," <u>Proc. Natl. Acad. Sci. USA</u> , 1996, 93:5824-5829
	ALL	Goto and Meyerowitz, "Function and regulation of the <i>Arabidopsis</i> floral homeotic gene <i>PISTILLATA</i> ," <u>Genes &amp; Development</u> , 1994, 8:1548-1560
	AMM	Grossniklaus et al., "Maternal Control of Embryogenesis by MEDEA, a Polycomb Group Gene in <i>Arabidopsis</i> ," <u>Science</u> , 1998, 280:446-450
	ANN	Gruenbaum et al., "Sequence specificity of methylation in higher plant DNA," <u>Nature</u> , 1981, 292:860-862
	AOO	Guberac et al., "Influence of seed size on germinability, germ length, rootlet length and grain yield in spring oat," <u>Die Bodenkultur</u> , 1998, 49(1):13-18

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

MAY 06 2003

Sheet 3 of 4

Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 11696-067001	Application No. 10/058,825
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		RECEIVED MAY 07 2003 TECH CENTER 1600/2900		
		Applicant Roderick J. Scott	Filing Date January 30, 2002	Group Art Unit 1632
(37 CFR §1.98(b))				

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	APP	Haig and Westoby, "Genomic imprinting in endosperm: its effect on seed development in crosses between species, and between different ploidies of the same species, and its implications for the evolution of apomixis," <i>Phil. Trans. R. Soc. Lond. B</i> , 1991, 333:1-13
	AQQ	Hannah and Greene, "Maize Seed Weight is Dependent on the Amount of Endosperm ADP-glucose Pyrophosphorylase," <i>J. Plant Physiol.</i> , 1998, 152:649-652
	ARR	Irish and Yamamoto, "Conservation of Floral Homeotic Gene Function between <i>Arabidopsis</i> and <i>Antirrhinum</i> ," <i>Plant Cell</i> , 1995, 7:1635-1644
	ASS	Jack et al., "The Homeotic Gene <i>APETALA3</i> of <i>Arabidopsis thaliana</i> Encodes a MADS Box and Is Expressed in Petals and Stamens," <i>Cell</i> , 1992, 68:683-697
	ATT	Jones et al., "Methylated DNA and MeCP2 recruit histone deacetylase to repress transcription," <i>Nature Genetics</i> , 1998, 19:187-191
	AUU	Kakutani et al., "Characterization of an <i>Arabidopsis thaliana</i> DNA hypomethylation mutant," <i>Nucleic Acids Res.</i> , 1995, 23:130-137
	AVV	Kakutani et al., "Developmental abnormalities and epimutations associated with DNA hypomethylation mutations," <i>Proc. Natl. Acad. Sci. USA</i> , 1996, 93:12406-12411
	AWW	Kass et al., "DNA methylation directs a time-dependent repression of transcription initiation," <i>Current Biology</i> , 1997, 7:157-165
	AXX	Kermicle and Alleman, "Gametic imprinting in maize in relation to the angiosperm life cycle," <i>Development</i> , 1990, Supplement, pp. 9-14
	AYY	Kiyosue et al., "Control of fertilization-independent endosperm development by the <i>MEDEA</i> polycomb gene in <i>Arabidopsis</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 1999, 96:4186-4191
	AZZ	Koltunow et al., "Apomixis: Molecular Strategies for the Generation of Genetically Identical Seeds without Fertilization," <i>Plant Physiol.</i> , 1995, 108:1345-1352
	AAAA	Krannitz et al., "The Effect of Genetically Based Differences in Seed Size on Seedling Survival in <i>Arabidopsis Thaliana</i> (Brassicaceae)," <i>Am. J. Botany</i> , 1991, 78(3):446-450
	ABBB	Laherty et al., "Histone Deacetylases Associated with the mSin3 Corepressor Mediate Mad Transcriptional Repression," <i>Cell</i> , 1997, 89:349-356
	ACCC	Li et al., "Role for DNA methylation in genomic imprinting," <i>Nature</i> , 1993, 366:362-365
	ADDD	Lund et al., "Endosperm-specific demethylation and activation of specific alleles of $\alpha$ -tubulin genes of <i>Zea mays</i> L.," <i>Mol. Gen. Genet.</i> , 1995, 246:716-722
	AEEE	Luo et al., "Genes controlling fertilization-independent seed development in <i>Arabidopsis thaliana</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 1999, 96:296-301
	AFFF	Manga and Yadav, "Effect of seed size on developmental traits and ability to tolerate drought in pearl millet," <i>J. Arid Environments</i> , 1995, 29:169-172
	AGGG	Marshall, "Effect of Seed Size on Seedling Success in Three Species of <i>Sesbania</i> (Fabaceae)," <i>Amer. J. Bot.</i> , 1986, 73(4):457-464
	AHHH	Martienssen and Richards, "DNA methylation in eukaryotes," <i>Curr. Opin. Genet. Dev.</i> , 1995, 5:234-242
	AIII	Matzke and Matzke, "How and Why Do Plants Inactivate Homologous (Trans)genes?" <i>Plant Physiol.</i> , 1995, 107:679-685
	AJJJ	Nan et al., "Transcriptional repression by the methyl-CpG-binding protein MeCP2 involves a histone deacetylase complex," <i>Nature</i> , 1998, 393:386-389

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

MAY 9 6 2003

Sheet 4 of 4

Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 11696-067001	Application No. 10/058,825
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Roderick J. Scott	Filing Date January 30, 2002	Group Art Unit 1632

RECEIVE  
MAY 07 2003  
TECH CENTER 1600/2900**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AKKK	Napoli et al., "Introduction of a Chimeric Chalcone Synthase Gene into Petunia Results in Reversible Co-Suppression of Homologous Genes <i>in trans</i> ," <u>Plant Cell</u> , 1990, 2:279-289
	ALLL	Ohad et al., "A mutation that allows endosperm development without fertilization," <u>Proc. Natl. Acad. Sci. USA</u> , 1996, 93:5319-5324
	AMMM	Ohad et al., "Mutations in FIE, a WD Polycomb Group Gene, Allow Endosperm Development without Fertilization," <u>Plant Cell</u> , 1999, 11:407-415
	ANNN	Pazin and Kadonaga, "What's Up and Down with Histone Deacetylation and Transcription?" <u>Cell</u> , 1997, 89:325-328
	AOOO	Razin, "CpG methylation, chromatin structure and gene silencing – a three-way connection," <u>EMBO J.</u> , 1998, 17(17):4905-4908
	APPP	Reiser et al., "The <i>BELL1</i> Gene Encodes a Homeodomain Protein Involved in Pattern Formation in the <i>Arabidopsis</i> Ovule Primordium," <u>Cell</u> , 1995, 83:735-742
	AQQQ	Richards, "DNA methylation and plant development," <u>Trends in Genetics</u> , 1997, 13(8):319-323
	ARRR	Roberts et al., "Gametophytic and sporophytic expression of an anther-specific <i>Arabidopsis thaliana</i> gene," <u>Plant J.</u> , 1993, 3(1):111-120
	ASSS	Roeckel et al., "Phenotypic alterations and component analysis of seed yield in transgenic <i>Brassica napus</i> plants expressing the <i>tzs</i> gene," <u>Physiologia Plantarum</u> , 1998, 102:243-249
	ATTT	Ronemus et al., "Demethylation-Induced Developmental Pleiotropy in <i>Arabidopsis</i> ," <u>Science</u> , 1996, 273:654-657
	AUUU	Schaal, "Reproductive Capacity and Seed Size in <i>Lupinus Texensis</i> ," <u>Amer. J. Bot.</u> , 1980, 67(5):703-709
	AVVV	Scott et al., "Parent-of-origin effects on seed development in <i>Arabidopsis thaliana</i> ," <u>Development</u> , 1998, 125:3329-3341
	AWWW	Sessions et al., "Patterning the floral meristem," <u>Seminars in Cell &amp; Developmental Biology</u> , 1998, 9:221-226
	AXXX	Solter, "Differential Imprinting and Expression of Maternal and Paternal Genomes," <u>Annu. Rev. Genet.</u> , 1988, 22:127-146
	AYYY	Stoskopf et al., "Chapter 17 – Interspecific and Intergeneric Hybridization," <u>Plant Breeding – Theory and Practice</u> , 1993, Westview Press, Boulder, CO, pp. 345-371
	AZZZ	Vongs et al., " <i>Arabidopsis thaliana</i> DNA Methylation Mutants," <u>Science</u> , 1993, 260:1926-1928
	AAAAA	Winn, "Effects of Seed Size and Microsite on Seedling Emergence of <i>Prunella Vulgaris</i> in Four Habitats," <u>J. Ecology</u> , 1985, 73:831-840
	ABBBB	Wulff, "Seed Size Variation in <i>Desmodium Paniculatum</i> ," <u>J. Ecology</u> , 1986, 74:99-114

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	